



Fraxinus excelsior Common Ash¹

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INTRODUCTION

Common Ash is a broad, spreading, deciduous tree, capable of reaching 100 feet or more in height but most often seen growing at a moderate pace at 70 to 80 feet with a 60 to 90-foot spread (Fig. 1). The dark green, multi-divided leaves are 10 to 12 inches long and usually drop off in autumn while still green but some cultivars may turn an attractive yellow first. The inconspicuous springtime flowers are followed by clusters of 1.5-inch-long, winged fruits which turn brown and remain on the trees well after the leaves have fallen. The low-branched, rounded silhouette of naked branches on top of the short trunk and the black, dormant leaf buds help to make common Ash an attractive winter landscape element.

GENERAL INFORMATION

Scientific name: *Fraxinus excelsior*

Pronunciation: FRACK-sih-nus eck-SELL-see-or

Common name(s): Common Ash, European Ash

Family: *Oleaceae*

USDA hardiness zones: 5 through 8A (Fig. 2)

Origin: not native to North America

Uses: recommended for buffer strips around parking lots or for median strip plantings in the highway; shade tree; no proven urban tolerance

Availability: somewhat available, may have to go out of the region to find the tree

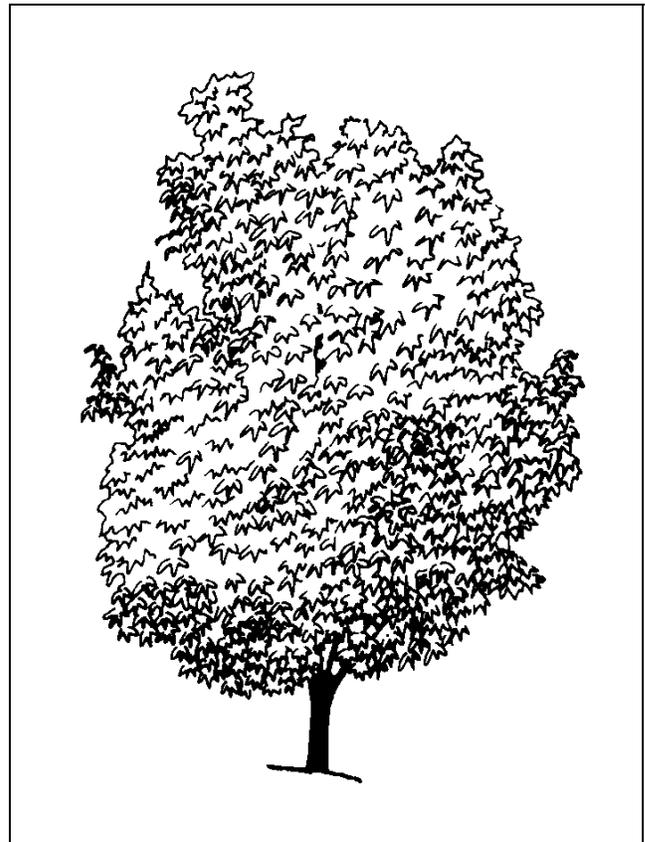


Figure 1. Middle-aged Common Ash.

DESCRIPTION

Height: 60 to 80 feet

Spread: 60 to 90 feet

Crown uniformity: symmetrical canopy with a regular (or smooth) outline, and individuals have more or less identical crown forms

Crown shape: round

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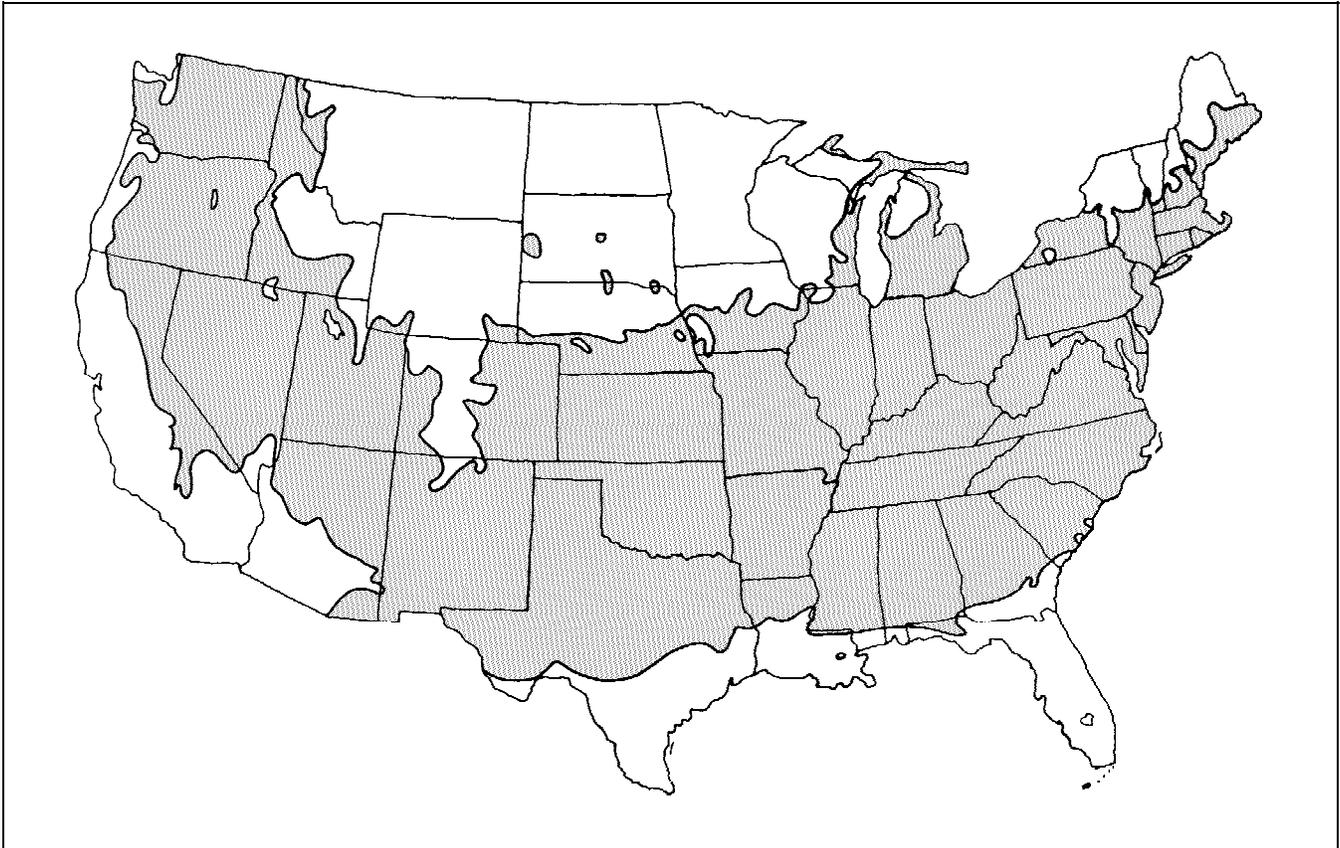


Figure 2. Shaded area represents potential planting range.

Crown density: dense

Growth rate: fast

Texture: medium

Foliage

Leaf arrangement: opposite/subopposite (Fig. 3)

Leaf type: odd pinnately compound

Leaflet margin: serrate

Leaflet shape: lanceolate; ovate

Leaflet venation: pinnate

Leaf type and persistence: deciduous

Leaflet blade length: 2 to 4 inches

Leaf color: green

Fall color: yellow

Fall characteristic: showy

Flower

Flower color: green

Flower characteristics: inconspicuous and not showy; spring flowering

Fruit

Fruit shape: elongated

Fruit length: 1 to 3 inches

Fruit covering: dry or hard

Fruit color: green; tan

Fruit characteristics: attracts birds; fruit, twigs, or foliage cause significant litter; showy

Trunk and Branches

Trunk/bark/branches: droop as the tree grows, and will require pruning for vehicular or pedestrian clearance beneath the canopy; not particularly showy; should be grown with a single leader; no thorns

Pruning requirement: requires pruning to develop strong structure

Breakage: resistant

Current year twig color: brown; gray

Current year twig thickness: thick

Culture

Light requirement: tree grows in full sun

Soil tolerances: clay; loam; sand; acidic; alkaline; well-drained



Figure 3. Foliage of Common Ash.

Drought tolerance: high

Aerosol salt tolerance: high

Soil salt tolerance: good

Other

Roots: surface roots are usually not a problem

Winter interest: no special winter interest

Outstanding tree: not particularly outstanding

Invasive potential: little, if any, potential at this time

Ozone sensitivity: tolerant

Verticillium wilt susceptibility: susceptible

Pest resistance: very sensitive to one or more pests or diseases which can affect tree health or aesthetics

USE AND MANAGEMENT

Like many Ashes, the tree requires careful training and pruning to develop a central leader with strong branch structure. Without pruning many branches originate at the same position on the trunk which makes them prone to breakage and shortens their life. Select, then develop up to a dozen main branches well-spaced along the trunk as far up the tree as practical.

Common Ash should be grown in full sun or partial shade and prefers moist, rich soil, and grows well on calcareous soil. Grows best on deep soils with adequate moisture, although drought tolerance is moderate. It tolerates poorly-drained, low-quality and

alkaline soil. Its use is probably limited by borers which often infest the trunk and cause the tree to decline. Probably best suited for landscapes with plenty of soil space for root expansion, not in confined urban soil.

The cultivars are probably more available than the species. A few of the many cultivars include: 'Aurea' - slow-growing, perhaps to 50 feet tall and wide, deep yellow fall color, yellow twigs; 'Aurea Pendula', with yellow, pendulous branchlets; 'Aureovariegata', leaves variegated or edged with yellow; 'Hessei', 60 feet tall, single leaves, very disease-resistant, seedless, yellow or little fall color; 'Nana', compact, slow-growing dwarf form with small leaflets; 'Spectabilis', pyramidal shape; 'Pendula', weeping form; and 'Rancho' (also known as 'Kimberly'), 30 feet tall, round canopy, yellow fall foliage.

Propagation of the species is by seed.

Pests

Borers can kill trees. The most common borers infesting Ash are Ash borer, lilac borer and carpenterworm. Ash borer bores into the trunk at or near the soil line causing tree dieback. Lilac borer causes swellings on the trunk and limbs where the insect enters the tree. The carpenterworm larvae bore into the heartwood but come to the outside of the tree to push out frass and sawdust. Heavily infested trees can be severely weakened. Keep trees as healthy as possible by fertilizing regularly and watering during dry weather, particularly newly transplanted trees or those stressed from some other problem.

Aphids are often seen but are usually not serious.

In late summer, fall webworm could cover branches with webbing. The nests in branches close to the ground can be pruned out when first noticed.

Diseases

There may be a variety of diseases which infect this Ash. It has not been grown or used extensively.